

PROJECT DESCRIPTION

GENERAL

THIS PORTION OF THE PROJECT INVOLVES THE INITIAL MODIFICATION AND INSTALLATION OF VIDEO TRAFFIC DETECTION AT THE INTERSECTION OF MD 450 AT BELAIR DRIVE IN PRINCE GEORGE'S COUNTY. MD 450 IS ASSUMED TO RUN IN AN EAST/WEST DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION WILL CONTINUE TO OPERATE IN A NEMA-TWO-PHASE, FULLY ACTUATED MODE. THE EXISTING INTERCONNECT AT THE INTERSECTION OF MD 450 AT BELAIR DRIVE SHALL BE TAKEN OUT OF SERVICE DURING THIS PORTION OF THE PROJECT.

SPECIAL NOTE

ALL UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC AND ARE NOT TO BE CONSIDERED COMPLETE BECAUSE THESE UTILITIES MAY BE MODIFIED PRIOR TO AND DURING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING ALL UTILITY COMPANIES PRIOR TO CONSTRUCTION SO THAT ALL UTILITIES MAY BE LOCATED IN THE FIELD. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN THE UTILITIES AND THE TRAFFIC SIGNAL EQUIPMENT WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE PROJECT MANAGER IMMEDIATELY.

EQUIPMENT LIST "A"

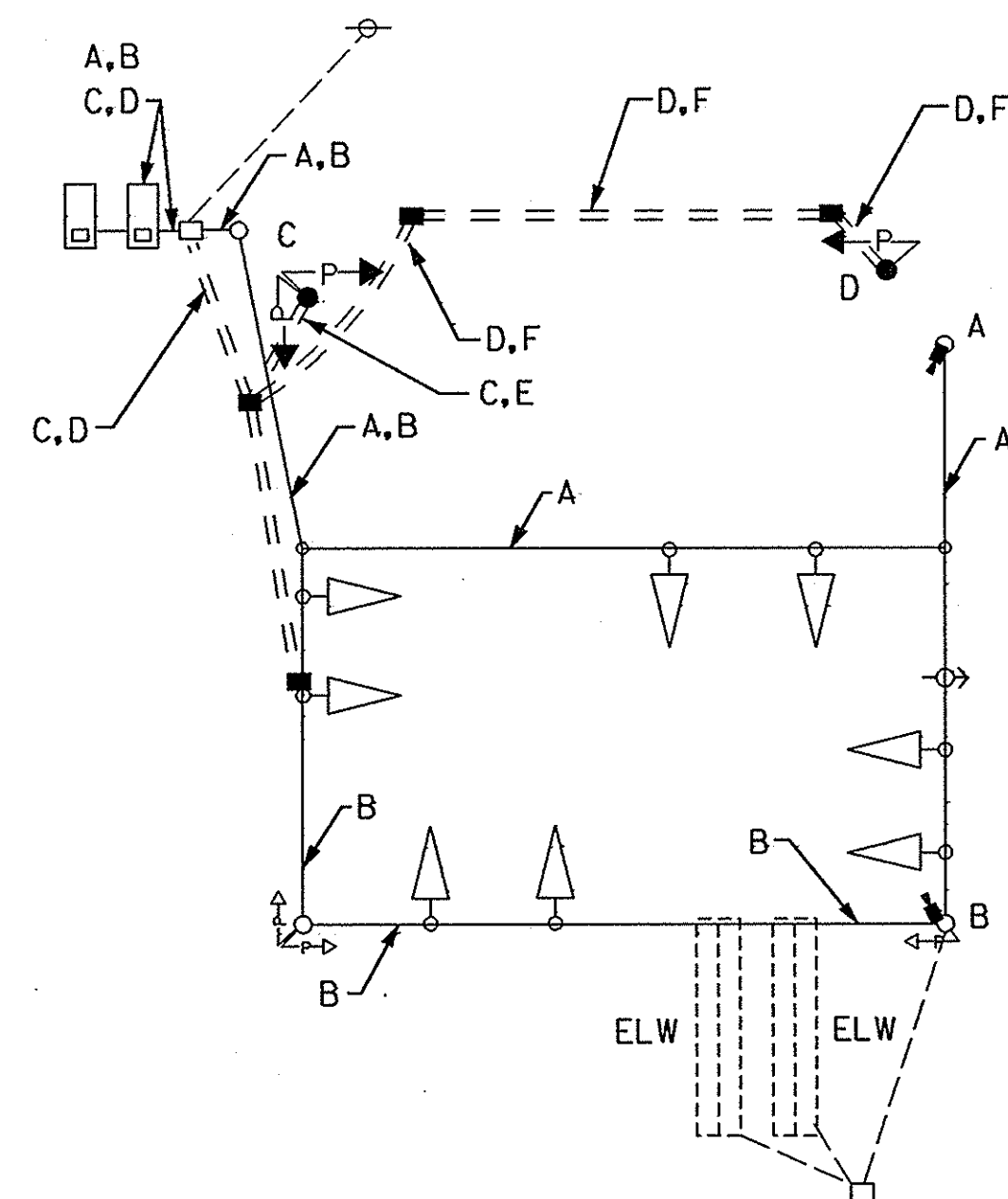
△ NONE

EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR

CAT CODE NUMBER	SPEC. SECTION	QUANTITY	DESCRIPTION
203030	205	1 C.Y.	TEST PIT EXCAVATION
585620	556	△ 250 L.F.	12 IN. HEAT APPLIED THERMOPLASTIC WHITE PAVEMENT MARKING
585624	556	70 L.F.	24 IN. HEAT APPLIED THERMOPLASTIC WHITE PAVEMENT MARKING
801004	804	6 C.Y.	CONCRETE FOR SIGNAL FOUNDATION
802501	805	125 L.F.	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
811001	811	4 EA.	ELECTRICAL HANDHOLE
818010	818	1 EA.	14 FT. BREAKAWAY PEDESTAL POLE
△ 818050	818	1 EA.	27 FT. STEEL POLE WITH TWIN 50/60FT. MAST ARMS
△ 837001	804	2 EA.	GROUND ROD 3/4 IN. X 10 FT. LENGTH
860278	814	4 EA.	12 IN. PEDESTRIAN SIGNAL HEAD SECTION (POLE MOUNT)
860282	814	2 EA.	12 IN. PEDESTRIAN SIGNAL HEAD SECTION (PEDESTAL MOUNT)
870163	805	32 L.F.	3 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT-TRENCHED
870166	805	44 L.F.	4 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT-TRENCHED
870167	805	45 L.F.	4 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT-BORED
870168	805	41 L.F.	4 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT-SLOTTED
800000	805	1 EA.	VIDEO TRAFFIC DETECTION SYSTEM
800000	805	2 EA.	△ VIDEO DETECTOR 500 FT. CABLE
800000	XXX	1 L.S.	REMOVE AND DISPOSE OF EXISTING MATERIAL
□ 861107	810	230 L.F.	ELECTRICAL CABLE 5-CONDUCTOR (NO. 14 AWG)

WIRING DIAGRAM



- A,B VIDEO TRAFFIC DETECTOR CABLE
- C,D ELECTRICAL CABLE 5-CONDUCTOR (NO. 14 AWG)
- E,F NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
- ELW EXISTING LOOP WIRE

PHASE CHART

	1	2	3	4	5	6	7	8	10	11	12	13	14	15	
	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	
PHASE 2+6	G	G	G	G	R	R	R	R	DW	WK	DW	WK	WK	WK	↔
2+6 CHANGE	Y	Y	Y	Y	R	R	R	R	DW	FL/DW	DW	FL/DW	FL/DW	FL/DW	↔
PHASE 4+8	R	R	R	R	G	G	G	G	WK	DW	WK	DW	DW	DW	↕
4+8 CHANGE	R	R	R	R	Y	Y	Y	Y	FL/DW	DW	FL/DW	DW	DW	DW	↕
FLASHING OPERATION	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	DARK	DARK	DARK	DARK	DARK	DARK	↕

EQUIPMENT LIST "C"

C. ALL REMOVED SIGNAL MATERIALS SHALL BECOME PROPERTY OF THE CONTRACTOR.

□ REDLINE NO. 1 5/6/02

△ ADDENDUM #2 10/11 2001



MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION

GENERAL INFORMATION SHEET
MD 450 - MD 193 TO STONYBROOK DRIVE
MD 450 AT BELAIR DRIVE - PHASE I

THE WILSON T. BALLARD CO.
CONSULTING ENGINEERS
OWINGS MILLS, MARYLAND

DRAWN BY: MB	F.A.P. NO. PG9005571	TS NO. TS-89B-2PHIA	SHEET NO. 434 OF 545
CHECKED BY: STB	S.H.A. NO. PRINCE GEORGE'S	T.I.M.S. NO. D 538	
SCALE: NONE	COUNTY: PRINCE GEORGE'S	LOG MILE: 12.36	
DATE: OCTOBER 2001			